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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/07/2003

BLAKELY SOKOLOFF & ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 90025 EXAMINER

JACKSON, CORNELIUS H

ART UNIT PAPER NUMBER

2828

DATE MAILED: 10/07/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,429	07/06/2001	Andrew Daiber	NUFO007	4974

TITLE OF INVENTION: EXTERNAL CAVITY LASER WITH SELECTIVE THERMAL CONTROL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	01/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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(703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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10/07/2003

BLAKELY SOKOLOFF & ZAFMAN LLP 12400 WILSHIRE BOULEVARD 7TH FLOOR LOS ANGELES, CA 90025

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signature (Date

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nonprovisional	NO	\$1330	\$300	\$1630	01/07/2004	
EXAM	INER	ART UNIT	CLASS-SUBCLASS]		
JACKSON, CORNELIUS H		2828	372-092000		`	
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			For printing on the patent front page, nes of up to 3 registered patent at nts OR, alternatively, (2) the name	ttorneys or 1		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		firm	firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		tion form atto	rneys or agents. If no name is listed be printed.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE

☐ individual ☐ corporation or other private group entity Please check the appropriate assignee category or categories (will not be printed on the patent); 4b. Payment of Fee(s): 4a. The following fee(s) are enclosed: A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Payment by credit card. Form PTO-2038 is attached. Publication Fee ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this form). ☐ Advance Order - # of Copies _

Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,429	07/06/2001	Andrew Daiber NUF0007		4974
7	590 10/07/2003		EXAM	IINER
BLAKELY SOKOLOFF & ZAFMAN LLP			JACKSON, CORNELIUS H	
12400 WILSHIRE 7TH FLOOR	BOULEVARD		ART UNIT	PAPER NUMBER
LOS ANGELES,	CA 90025		2828	
			DATE MAILED: 10/07/200	3

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 89 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 89 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



UNITED STATES PATENT AND TRADEMARK OFFICE

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. 75	590 10/07/2003		EXAM	IINER	
BLAKELY SOKOLOFF & ZAFMAN LLP			JACKSON, C	JACKSON, CORNELIUS H	
12400 WILSHIRE 7TH FLOOR	BOULEVARD		ART UNIT	PAPER NUMBER	
LOS ANGELES, C	CA 90025		2828		
			DATE MAILED: 10/07/200	3	

Notice of Fee Increase on October 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2003. <u>See Revision of Patent Fees for Fiscal Year 2004</u>; <u>Final Rule</u>, 68 Fed. Reg. 41532, 41533, 41534 (July 14, 2003).

The current fee schedule is accessible from (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2003 (or mailed with a certificate of mailing on or after October 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2003, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	09/900,429	DAIBER, ANDREW	
Notice of Allowability	Examiner	Art Unit	
	On mallion III Indiana	0000	
	Cornelius H. Jackson	2828	
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.	S IS (OR REMAINS) CLOSED in -85) or other appropriate commun T RIGHTS. This application is su	this application. If not included nication will be mailed in due course. TF	IIS tiative
1. This communication is responsive to <u>02 June 2003</u> .			
2. X The allowed claim(s) is/are <u>1-25 and 30-33</u> .			
3. The drawings filed on are accepted by the Exam	miner.		
 Acknowledgment is made of a claim for foreign priority a) ☐ All b) ☐ Some* c) ☐ None of the: 	under 35 U.S.C. § 119(a)-(d) or	(f) .	
 Certified copies of the priority documents h 	nave been received.		•
2. Certified copies of the priority documents h	nave been received in Application	No	
 Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a) 		in this national stage application from the	ne
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priori	•		
(a) The translation of the foreign language provision			
6. Acknowledgment is made of a claim for domestic priori	ty under 35 0.5.C. 99 120 and/or	121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMENT	E" of this communication to file a F of this application. THIS THRE	reply complying with the requirements n EE-MONTH PERIOD IS NOT EXTENDA	oted ABLE
7. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which gives	submitted. Note the attached EXA reason(s) why the oath or declara	MINER'S AMENDMENT or NOTICE OF	F
8. X CORRECTED DRAWINGS must be submitted.			
(a) ⊠ including changes required by the Notice of Drafts	sperson's Patent Drawing Review	(PTO-948) attached	
1) ☐ hereto or 2) ☒ to Paper No. <u>5</u> .			
(b) including changes required by the proposed draw	ing correction filed, whicl	has been approved by the Examiner.	
(c) including changes required by the attached Exam	iner's Amendment / Comment or	in the Office action of Paper No	
Identifying indicia such as the application number (see 37 Cl each sheet.			
9. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMENT FO	eposit of BIOLOGICAL MATE OR THE DEPOSIT OF BIOLOGIC	RIAL must be submitted. Note the AL MATERIAL.	
Attachment(s)		·	
1 Notice of References Cited (PTO-892)		Informal Patent Application (PTO-152) Summary (PTO-413), Paper No 's Amendment/Comment	

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Art Unit: 2828

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anthony H. Azure (Reg. 52,580) on 29 September 2003.

The application has been amended as follows:

Cancel claims 26-29.

Allowable Subject Matter

- Claims 1-25 and 30-33 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Regarding claims 1-25, Prior Art failed to teach a laser apparatus comprising a gain medium having a first and second facet; a reflector (end mirror) positioned on the same side as the first facet of the gain medium, wherein the reflector (end mirror) and the second facet of the gain medium form an external cavity; an optical output assembly positioned on the same side as the second facet of the gain medium and being optically coupled

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the second facet; a first thermally conductive substrate having the gain medium and the optical output assembly mounted thereon; a thermoelectric controller thermally controlling the temperature of the gain medium and output assembly by way of thermal conduction through the first substrate; and, a second substrate having the reflector (end mirror) mounted thereon, wherein the second substrate is thermally isolated from the first thermally conductive substrate and is thermally controlled to control the temperature of the reflector (end mirror) independently of the temperature or change in temperature of the gain medium and/or optical output assembly. Therefore, the first thermally conductive substrate is thermally isolated from the second substrate and is thermally controlled to control the temperature of the gain medium and/or optical output assembly independently of the temperature or change in temperature of the reflector (end mirror), as well.

Regarding claims 30-33, Examiner viewed claims 30-33, as claims 1-25 above, having further limitations of a collimating lens, a fiber focus lens and an optical fiber, since independent claim 30 also recites. This limitation of a "means for providing selective thermal control to said optical output assembly independently from said reflector" was limited in that the Examiner looked to the specification to find what the "means" was to be interpreted as. In this case the "means" was interpreted as "a first thermally conductive substrate having the gain medium and the optical output assembly mounted thereon; a thermoelectric controller thermally controlling the temperature of the gain medium and output assembly by way of thermal conduction through the first substrate; and, a second substrate having the reflector mounted thereon, wherein the

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second substrate is thermally isolated from the first thermally conductive substrate and is thermally controlled to control the temperature of the reflector independently of the temperature or change in temperature of the gain medium and/or optical output

assembly."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (703) 306-5981. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

chj

CHJ